



PATENT  
P57009

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

BYOUNG-CHUL KIM, *et al.*

Serial No.: 10/759,235

Examiner: *To be assigned*

Filed: 20 January 2004

Art Unit: 2153

For: DISTRIBUTED ROUTER FOR DYNAMICALLY MANAGING FORWARDING  
INFORMATION AND METHOD THEREOF

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references.

**FOREIGN PATENT REFERENCE:**

- Japanese Patent Publication No. 2000-083045 to Tsukagoshi, *et al.*, entitled *ROUTE CONTROL SYSTEM*, published on 21 March 2000 (with English abstract).
- Japanese Patent Publication No. 2000-188608 to Nomi, *et al.*, entitled *INFORMATION RELAY METHOD AND SYSTEM*, published on 4 July 2000 (with English abstract).

**OTHER DOCUMENTS:**

- Japanese Office action for Korean Patent Application No. 2004-024440, issued on 27 June 2006.

## **DISCUSSION**

**Tsukagoshi JP'045**, according to the Japanese Office action in applicant's Japanese patent application Serial No. 2004-024440, discloses that a network information sharing means is newly provided in a path calculation mechanism of each router constituting a cluster type router. The means receives the updation notice of network information collected by a routing protocol and transmits this updation information as a network information notice packet to the whole other routers constituting the cluster type router. The network information sharing means in a receiving destination router notifies the contents of the received updation information to the routing protocol. The protocol updates network information belonging to itself based on the notified contents. Thus, network information obtained from the entire routers existing outside the cluster type router is shared by each router and the cluster type router is externally recognized as a single router.

**Nomi JP'608**, discloses that a router relays information through a computer network consists of a path management section F0 that manages path information by means of a path management table TBL0 adopting a binary tree structure and of a path retrieval section F1 that has path information in a form of a path retrieval table TBL1 adopting a 2 to the p-th power tree structure and retrieves and decides a transfer destination (a port 50 to which information is to be outputted) by means of destination address information in a packet 51 received from one of a plurality of ports 50. The path management section F0 updates each node of a binary tree structure of the path management table TBL0, in response to addition or the like of a path information entry E and conducts maintenance processing to reflect the updated result on 2 to the p-th power tree structure of the path retrieval table TBL1.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

No fee is incurred by this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "R. E. Bushnell", is written over a horizontal line.

Robert E. Bushnell

Reg. No.: 27,774

Attorney for the Applicant

1522 "K" Street, N.W., Suite 300  
Washington, D.C. 20005  
Area Code: (202) 408-9040  
Folio: P57009  
Date: 7/13/06  
I.D.: REB/ks



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	<b>APPLICANT</b> BYOUNG-CHUL KIM, <i>et al.</i>	
	<b>FILING DATE</b> 20 January 2004	<b>GROUP</b> 2153

U.S. PATENT DOCUMENTS							
EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS						TRANSLATION	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	JP 2000-083045	03/00	JAPAN			Abstract	
	JP 2000-188608	07/00	JAPAN			Abstract	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	Japanese Office Action of the Japanese Patent Application No. 2004-024440, issued on 27 June 2006						
EXAMINER:			DATE CONSIDERED:				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							